Glumpy

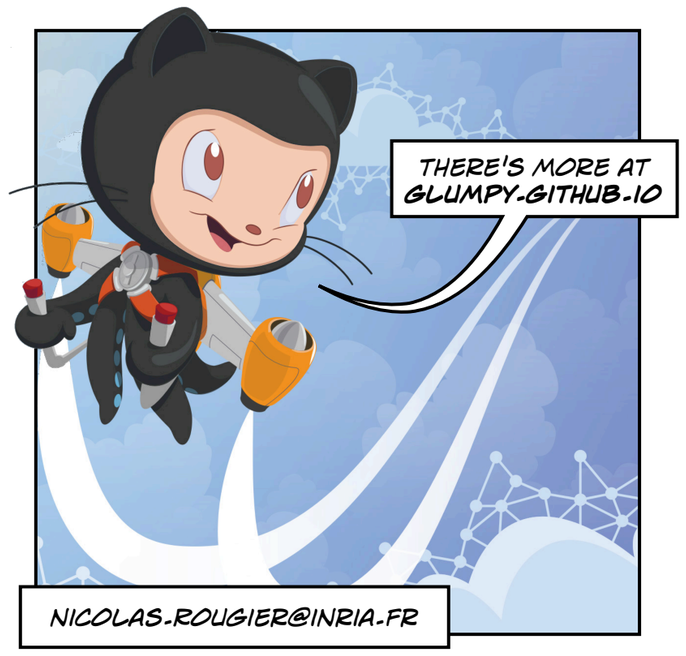
Nicolas P. Rougier

BSD LICENSED

GLUMPY

OPENGL+NUMPY

FAST, SCALABLE AND BEAUTIFUL SCIENTIFIC VISUALIZATION



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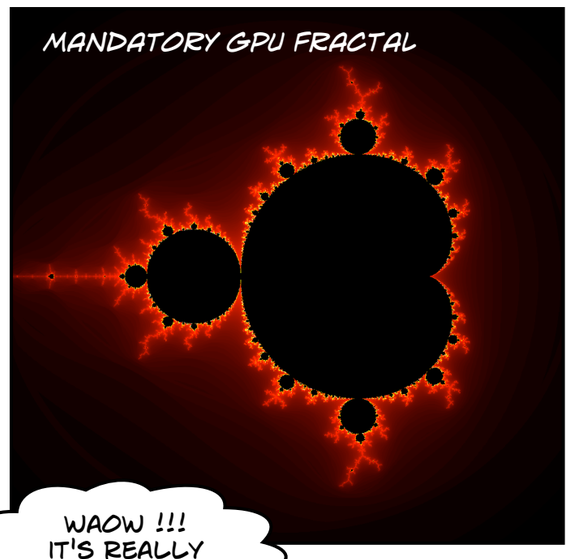

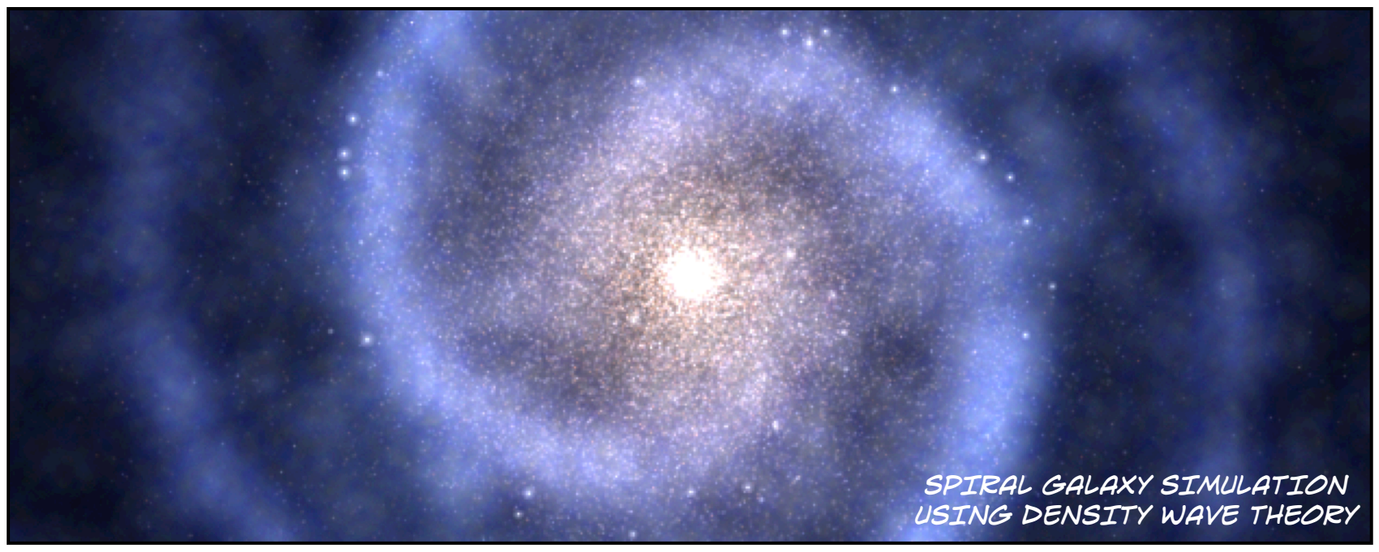

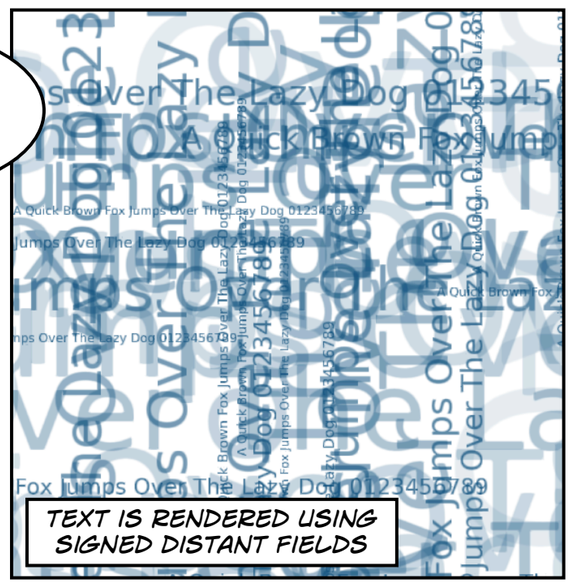

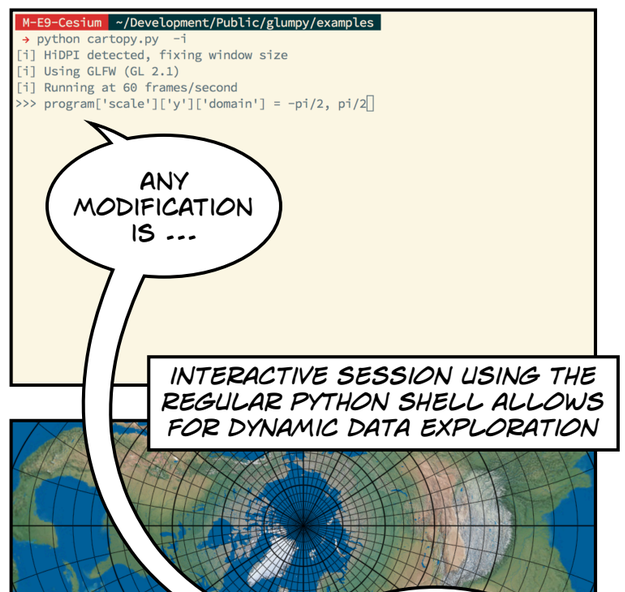

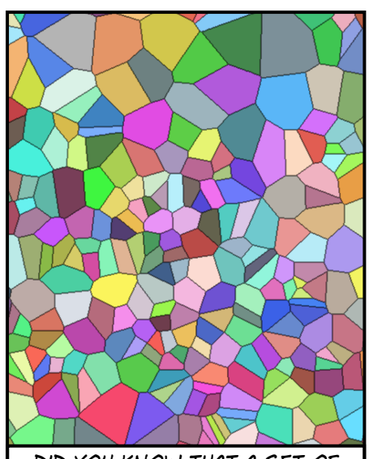

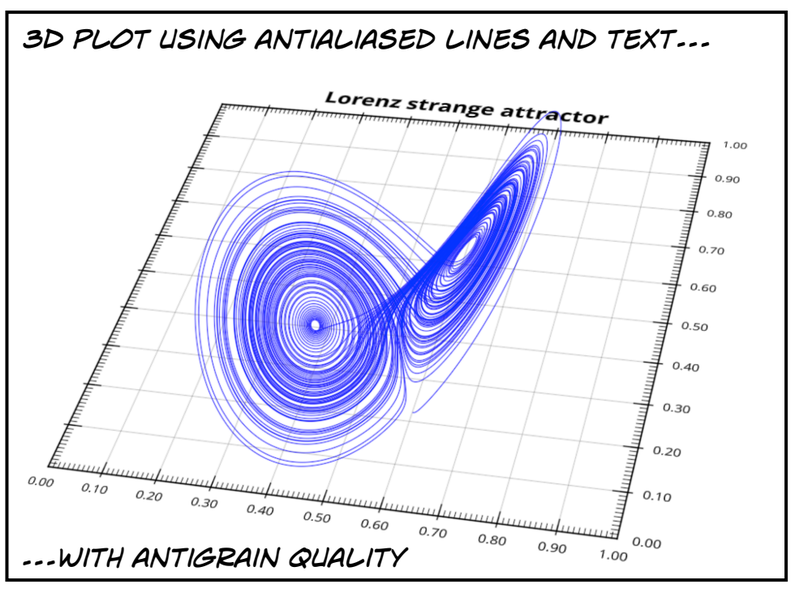

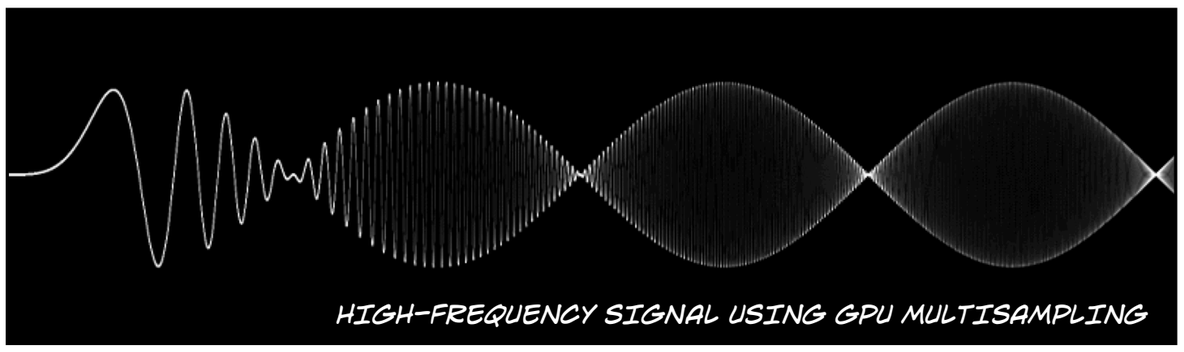

GLUMPY IS A PYTHON LIBRARY FOR SCIENTIFIC VISUALIZATION THAT IS BOTH FAST, SCALABLE AND BEAUTIFUL. GLUMPY OFFERS AN INTUITIVE INTERFACE BETWEEN NUMPY AND MODERN OPENGL.

NUMPY ARRAYS ARE TRACKED AUTOMATICALLY SUCH THAT ANY CHANGE ON THE CPU IS REFLECTED AUTOMATICALLY ON THE GPU, MAKING THE INTEGRATION SEAMLESS.

GLUMPY PROVIDES MORE THAN 100 EXAMPLES SHOWING HOW TO ACHIEVE THIS OR THAT VISUALIZATION, SUCH AS ANTIALIASING, TEXT RENDERING, ISOLINES COMPUTATION, IMAGE FILTERING, CARTOGRAPHIC PROJECTION, REALTIME SIGNALS, FLUID SIMULATION, SVG RENDERING, ETC.

GLUMPY IS A LABORATORY FOR EXPERIMENTING IDEAS TO BE INTEGRATED INTO THE VISPY PROJECT THAT LIVES AT **VISPY.ORG**, BUT GLUMPY CAN ALSO BE USED AS A STANDALONE LIBRARY.